

AMENDMENTS TO THE CLAIMS, COMPLETE LISTING OF CLAIMS
IN ASCENDING ORDER WITH STATUS INDICATOR

Please amend the following claims as indicated.

1. (Currently Amended) A method for producing a transgenic gramineae plant having iron deficiency resistance, comprising transforming a gramineae plant with a polynucleotide by using a vector ~~pIG121Hm or pBIGRZ~~, wherein the polynucleotide is selected from the group consisting of

- (A) a polynucleotide encoding an amino acid sequence of SEQ ID NO: 1,
- (B) a polynucleotide encoding an amino acid sequence of SEQ ID NO: 2,
- (C) a polynucleotide which encodes an enzyme exhibiting nicotianamine amino transferase (NAAT) activity and can hybridize with polynucleotide (A) or (B) under stringent conditions of a hybridization buffer comprising 6 x SSPE, 5 x Denhart solution, 0.1% SDS, and 100 mg/ml altered salmon spermary DNA, and a hybridization temperature of 65 degrees, and
- (D) a an isolated polynucleotide comprising the base sequence of SEQ ID NO. 3.

2. (Canceled).

3. (Currently Amended) The method ~~in accordance with~~ according to claim 1, wherein the polynucleotide further comprises a promoter, ~~said promoter being CaMV35S~~.

4. (Canceled).

5. (Currently Amended) The method ~~in accordance with~~ according to claim 1, wherein the polynucleotide ~~is~~ encodes a barley ~~naat gene~~ nicotianamine aminotransferase (NAAT).

6. (Canceled).

7. (Currently Amended) A transgenic gramineae ~~with iron deficiency resistance~~ produced through plant comprising an isolated polynucleotide comprising the method in

~~accordance with any one base sequence of claims 1 to 3 and 5, SEQ ID NO. 3, wherein said transgenic gramineae plant has resistance to iron deficiency.~~

8. (Currently Amended) A transgenic seed of the transgenic gramineae ~~in accordance with plant according to claim 7, wherein the seed comprises a polynucleotide selected from the group consisting of~~

- ~~(A) a polynucleotide encoding an amino acid sequence of SEQ ID NO: 1,~~
- ~~(B) a polynucleotide encoding an amino acid sequence of SEQ ID NO: 2,~~
- ~~(C) a polynucleotide which encodes an enzyme exhibiting nicotianamine amino transferase (NAAT) activity and can hybridize with polynucleotide (A) or (B) under stringent conditions of a hybridization buffer comprising 6 x SSPE, 5 x Denhart solution, 0.1% SDS, and 100 mg/ml altered salmon sperm DNA, and a hybridization temperature of 65 degrees, and~~
- ~~(D) a polynucleotide comprising the base sequence of SEQ ID NO. 3.~~

9. (Currently Amended) A transgenic cell of the transgenic gramineae ~~in accordance with plant according to claim 7, wherein the cell comprises a polynucleotide selected from the group consisting of~~

- ~~(A) a polynucleotide encoding an amino acid sequence of SEQ ID NO: 1,~~
- ~~(B) a polynucleotide encoding an amino acid sequence of SEQ ID NO: 2,~~
- ~~(C) a polynucleotide which encodes an enzyme exhibiting nicotianamine amino transferase (NAAT) activity and can hybridize with polynucleotide (A) or (B) under stringent conditions of a hybridization buffer comprising 6 x SSPE, 5 x Denhart solution, 0.1% SDS, and 100 mg/ml altered salmon sperm DNA, and a hybridization temperature of 65 degrees, and~~
- ~~(D) a polynucleotide comprising the base sequence of SEQ ID NO. 3.~~

10. (Currently Amended) A method of growing a gramineae plant in an iron deficient field comprising planting the transgenic gramineae plant of claim 7, ~~or seeds thereof~~ in said field under conditions to promote growth of said transgenic gramineae plant.

11. (Canceled).

12. (Currently Amended) The transgenic gramineae ~~in accordance with~~ plant according to claim 7, wherein the polynucleotide ~~is~~ encodes a barley ~~naat~~ gene nicotianamine aminotransferase (NAAT).

13. (New) A method of growing a gramineae plant in an iron deficient field comprising planting the transgenic seed of claim 8 in said field under conditions to promote growth of a transgenic plant.